

(PCT Article 36 and Rule 70)

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/001832

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1-17, 19 as originally filed/furnished
- pages* 18 received by this Authority on 30.11.2005
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. 1-8 as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* _____ received by this Authority on _____
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets 1, 2 as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/001832

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
1. Statement	
Novelty (N)	Claims <u>1-8</u> YES Claims _____ NO
Inventive step (IS)	Claims _____ YES Claims <u>1-8</u> NO
Industrial applicability (IA)	Claims <u>1-8</u> YES Claims _____ NO
2. Citations and explanations (Rule 70.7)	
	<p>Document 1: JP 56-58024 A claim 1, page 2, upper left column, lines 9 to 20; page 2, upper right column, lines 13 to 18; fig. 1</p> <p>Document 2: JP 2001-55642 A, claim 1, paragraph [0002]</p> <p>Claims 1 to 8</p> <p>Documents 1 and 2</p> <p>The inventions set forth in claims 1 to 8 do not involve an inventive step in the light of documents 1 and 2 cited in the international search report.</p> <p>Document 1 sets forth a fiber material for fiber-reinforced resin, having a bilayer structure comprising a back side structure and a face side structure in which reinforcing fibers are used, and said back side structure and face side structure have their fiber structures interconnected to form an integrated body (claim 1, page 2, upper left column, lines 9 to 20). In addition, glass fiber is disclosed as the aforementioned fiber (page 2, upper right column, lines 13 to 18), and a plain weave is disclosed as the structure of the fabric (page 2, upper left column, lines 9 to 20).</p> <p>It is a known technique to use a fiber material for fiber-reinforced resin as a material for printed circuit</p>

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
-----------	--

boards (see document 2, if necessary).

In addition, document 2 sets forth a production method wherein prepreg comprising glassfiber impregnated with resin in a semi-hardened state is laminated, a metal foil such as copper foil is overlaid on both sides, and this is heated under pressure to harden the resin (paragraph [0002]). It would be easy for a person skilled in the art to employ said method when using the fiber material set forth in document 1 for printed circuit boards.

Moreover, after hardening the resin, preparing a circuit pattern and forming through-holes is merely the application of known techniques.